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PATENT  
5760-12400/VRTS0391



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/623,406

Filed: July 18, 2003

Inventors:

HanCheng Hsiung  
Xinyi David Lai

Title: REFRESH MECHANISM  
FOR DATABASES

§ Examiner: Lu, Charles Edward  
§ Group/Art Unit: 2163  
§ Atty. Dkt. No: 5760-12400

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date indicated below.

Robert C. Kowert

Printed Name

 May 9, 2006  
Signature Date

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Applicant requests consideration of  the references listed on the attached Form PTO-1449 and/or  the additional information identified below in paragraph 3.

- Pursuant to CFR §1.98(a)(2)(i), copies of the cited U.S. patents and/or U.S. patent application publications are not enclosed.
- A copy of each non-U.S. patent and/or non-U.S. patent application publication reference listed on the Form PTO-1449 is enclosed.
- The non-U.S. patent and/or non-U.S. patent application publication references listed on the Form PTO-1449 were previously cited in application serial no. \_\_\_\_\_ to which the captioned application is seeking priority under 35 U.S.C. §120; therefore, a copy of each reference is not enclosed.

1. This Information Disclosure Statement is submitted:

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05/15/2006 ZJUHAR1 00000013 501505 180.00 DA  
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- a.
    - within 3 months of the filing date of a national application other than a continued prosecution application under § 1.53(d);
    - within 3 months of the date of entry of the national stage as set forth in § 1.491 in an International application;
    - before the mailing date of a first Office Action on the merits; or
    - before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114.
  - b.  after the events of above paragraph 1a and prior to the mailing date of a final Office Action or Notice of Allowance, and thus:  the certification of paragraph 2 below is provided, or  a fee of \$180.00 is authorized below.
  - c.  after the mailing date of a final Office Action or a Notice of Allowance and prior to payment of the issue fee, and thus: the certification of paragraph 2 below is provided and a fee of \$180.00 is enclosed.
2. It is hereby certified:
- that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or
  - that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in § 1.56 (c) more than three months prior to the filing of the Statement.
3.  Consideration of the following additional information (including any co-pending or abandoned U.S. applications, prior uses and/or sales, etc.) is requested:
4. For each non-English language reference listed on the attached Form PTO-1449:
- and/or
- reference is made to an English language translation submitted herewith,
  - reference is made to a foreign patent office search report (in the English language) submitted herewith, and/or
  - reference is made to an English language translation of a foreign patent office search report submitted herewith, and/or

- reference is made to the concise explanation contained in the specification of the present application at page(s) \_\_\_\_\_, and/or
  - reference is made to the concise explanation set forth below:
5.  Applicant also offers the following comments for the Examiner's consideration:
  6.  Also enclosed is a copy of a foreign search report citing these references.
  7.  The listed documents were brought to the attention of the Applicant(s) after payment of the issue fee in the captioned case. The documents were cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. Applicant(s) request this Information Disclosure Statement and attached Form PTO-1449 be placed in the file of the captioned application.
  8.  Applicant(s) requests that the Information Disclosure Statement and attached Form PTO-1449 and references, which are being filed before the grant of the patent and pursuant to 37 C.F.R. § 1.97(i), be placed in the file of the captioned application.

The Commissioner is authorized to charge the IDS fee of \$180.00 to Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. Deposit Account No. 50-1505/5760-12400/RCK.

Respectfully submitted,



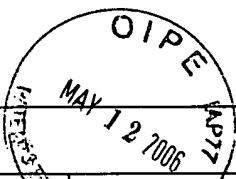
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**Form PTO-1449** (modified)  
 List of Patents and Publications  
 For Applicant's Information  
 Disclosure Statement  
 (Use several sheets if necessary)

ATTY. DOCKET NO: 5760-12400

SERIAL NO: 10/623,406



APPLICANT: Hsiung et al.

FILING DATE: July 18, 2003

GROUP: 2171

**U.S. PATENT DOCUMENTS**

| EXAM.<br>INITIALS | REF.<br>DES | DOCUMENT<br>NUMBER | DATE     | NAME                  | CLASS | SUB<br>CLASS | FILING DATE IF<br>APPROPRIATE |
|-------------------|-------------|--------------------|----------|-----------------------|-------|--------------|-------------------------------|
|                   |             | 6,105,030          | 8/15/00  | Syed et al.           |       |              |                               |
|                   |             | 5,956,713          | 9/21/99  | Bamford et al.        |       |              |                               |
|                   |             | 7,003,694          | 2/21/06  | Anderson, Jr., et al. |       |              |                               |
|                   |             | 6,957,362          | 10/18/05 | Armangau              |       |              |                               |
|                   |             |                    |          |                       |       |              |                               |
|                   |             |                    |          |                       |       |              |                               |
|                   |             |                    |          |                       |       |              |                               |
|                   |             |                    |          |                       |       |              |                               |

**FOREIGN PATENT DOCUMENTS**

| EXAM.<br>INITIALS | REF.<br>DES | DOCUMENT<br>NUMBER | DATE | COUNTRY | CLASS | SUB<br>CLASS | TRANSLATION.<br>YES/NO |
|-------------------|-------------|--------------------|------|---------|-------|--------------|------------------------|
|                   |             |                    |      |         |       |              |                        |
|                   |             |                    |      |         |       |              |                        |

**OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

|    |  |
|----|--|
| A1 | Ralph Kimball, "The Operational Data Warehouse," <a href="http://www.dbsmag.com">www.dbsmag.com</a> , January 1998. (5 Pages)  |
| A2 | Labio et al., "Efficient Snapshot Differential Algorithms for Data Warehousing, <a href="http://www-db.stanford.edu/pub/papers/window-short.ps">http://www-db.stanford.edu/pub/papers/window-short.ps</a> , 1996, (25 pages) |
|    |  |

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.